



## SOLID ELECTROLYTIC CAPACITOR AND METHOD OF PRODUCING THE SAME

The present application claims priority to prior application JP 2002-205679, the disclosure of which is incorporated herein by reference.

### BACKGROUND OF THE INVENTION

The present invention relates to a solid electrolytic capacitor and a method of producing the same.

An already known solid electrolytic capacitor has a configuration constituted by an anode, a dielectric layer, an electrolyte layer and a cathode, and is generally obtained by forming, on a metal having a valve action (valve-action metal) and constituting an anode, an oxide film as a dielectric layer (hereinafter called a dielectric layer), then forming thereon a solid electrolyte layer as a semiconductor layer and further forming a cathode member of, for example, graphite.

The valve-action metal is a metal capable of forming an oxide film of a controllable thickness by anodizing, and can be Nb, Al, Ta, Ti, Hf, Zr etc., among which Al and Ta are principally utilized for the practical purposes.

Of these, Al is employed as the anode in a form of an etched foil, while Ta is employed as the anode in a form of a porous material formed by powder sintering.

An electrolytic capacitor of the porous sintered type can be with a particularly